-W-S-Q-C-S-V-T-Q-G- (SEQ ID NO:4),

-W-S-P-W-S-E-W-T\S-C-S-T-S-C-G-N-G-I-Q-Q-R-G-R- (SEQ ID NO:15),

W-S-H-W-S-P-W-S-\$-C-S-V-T-C-G-D-G-V-I-T-R-I-R- (SEQ ID NO:16),

-W-G-P-W-S-P-W-D-I-¢-S-V-T-C-G-G-G-V-Q-K-R-S-R- (SEQ ID NO:17),

-W-S-Q-C-S-V-Y-C-G- \SEQ ID NO:18),

-T-E-W-S-A-C-S-K-S-C-G\M-G-F-S-T-R-V-T-N-R-N- (SEQ ID NO:19), and

-T-E-W-S-A-C-S-K-T-C-G-M-G-I-S-T-R-V-T-N-D-N- (SEQ ID NO:20).

The peptide according to claim 1, wherein said  $A_1$  is Pro or 2. (Amended)  $-X_1$ -W- $X_2$ - $X_3$ - (SEQ ID NO:5),  $X_1$ ,  $X_2$ , and  $X_3$  being chosen, independently of each other, from G, S and C.

(Amended) The peptide according to claim 2, wherein said A<sub>1</sub> is -X<sub>1</sub>-W-

- (Amended) The peptide according to claim 1, wherein said A2 is selected from the group consisting of -R-S-, -V-S-, and -V-T-.
- 5. The peptide according to claim 1, wherein said peptide (Amended) comprises at least the following amino acid sequence:

The peptide according to claim 1, wherein said peptide comprises the following amino acid sequence:

-W-S-G-W-S-9,C-S-R-S-C-G- (SEQ ID NO:8).

The peptide according to claim 1, wherein said peptide (Amended) comprises the following amino acid sequence:

-W-S-A1-C-S-A2-C-G-Z- (SEQ ID NO:9)

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in which Y and Z constitute the N- and C-terminal ends of the peptide, comprise amino acid chains having less than 6 amino acids or comprise chains of compounds that are not amino acids.

- 8. (Amended) A pharmaceutical composition comprising a peptide according to claim 1 and a pharmaceutically acceptable vehicle.
- 9. (Twice Amended) A method for regenerating nervous system cells, comprising contacting the cells with an effective amount of a peptide according claim 1.
- 10. (Twice Amended) A method for treating a neurodegenerative disease, said method comprising administering to a patient with said neurodegenerative disease an effective amount of a peptide according claim 1.
- 11. (Twice Amended) A method for treating a pathological condition or trauma requiring the regeneration of nervous system cells, said method comprising administering to a patient with said pathological condition or trauma an effective amount of a peptide according to claim 1.
- 12. (Twice Amended) A method for treating a neuroblastoma, said method comprising administering to a patient with said neuroblastoma an effective amount of a peptide according to claim 1.
- 13. (Twice Amended) An additive for culturing nerve cells, comprising a peptide according to claim 1.
- 14. (Twice Amended) A cellular expression vector, comprising a nucleic acid sequence expressing a peptide according to claim 1.
- 15. (Amended) The cellular expression vector according to Claim 14, wherein said vector comprises SEQ ID NO: 10.

## Sequence Listing

Please insert the Sequence Listing filed concurrently herewith and renumber pages 1-10 of the Sequence Listing as pages 18-27. In addition, please delete the Sequence Listing filed on November 1, 2001.